

Appendix A

Ericsson’s Proposed Rule Changes¹

Sec. 24.232 Power and antenna height limits.

(a) Base stations are limited to 1640 watts equivalent isotropically radiated output power (e.i.r.p.) per-carrier with an antenna height up to 300 meters HAAT. See Sec. 24.53 for HAAT calculation method. Base station antenna heights may exceed 300 meters with a corresponding reduction in power; see Table 1 of this section. In no case may the output power of a base station exceed 100 watts per-carrier. The service area boundary limit and microwave protection criteria specified in Sec. 24.236 and Sec. 24.237 apply.

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Table 1--Reduced Power for Base Station Antenna Heights Over 300 Meters

| HAAT in meters | Maximum e.i.r.p. (watts) |
|-----------------|--------------------------|
| [le]300 | *** |
| [le]500 | *** |
| [le]1,000 | *** |
| [le]1,500 | *** |
| [le]2,000 | *** |

Deleted: 1,640
Deleted: 1,070
Deleted: 490
Deleted: 270
Deleted: 160

(b) Mobile/portable stations are limited to 2 watts e.i.r.p. output power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

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(c) Transmitted power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true measurement for the emission in question over the full bandwidth of the carrier.

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¹ This proposed language assumes that the Commission retains its transmitter power output limit but changes the application of the limit from a “per-transmitter” to a “per-carrier” basis. If the Commission eliminates the transmitter output limit entirely, it should delete the existing sentence in 232(a), “In no case may the peak output power of a base station transmitter exceed 100 watts.” The Commission should still make Ericsson’s other changes to delete “peak” from (a), (b), and (c).

*** These values should be determined based on the e.i.r.p. limits eventually adopted by the Commission.